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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/888,316	09/888,316 06/22/2001		Thomas R. Volpert JR.	22275.0002	9555		
22850	7590	07/20/2006		EXAM	EXAMINER		
C. IRVIN MCCLELLAND				HENNING, MATTHEW T			
OBLON, SPI	VAK, M	CCLELLAND, MAI	ER & NEUSTADT, P.C.				
1940 DUKE S	STREET	,	•	ART UNIT	PAPER NUMBER		
ALEXANDR	IA, VA	22314		2131			

DATE MAILED: 07/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/888,316	VOLPERT, THOMAS R.
Office Action Summary	Examiner	Art Unit
	Matthew T. Henning	2131
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTRUCTION OF THE MAILING	DATE OF THIS COMMUNIC .136(a). In no event, however, may a re I will apply and will expire SIX (6) MONI te, cause the application to become ABA	CATION. Sply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status	•	
 1) Responsive to communication(s) filed on 02 I 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under 	is action is non-final. ance except for formal matte	• •
Disposition of Claims		
4) ⊠ Claim(s) 1,3,5-10,21-23 and 25-62 is/are pen 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,3,5-10,21-23 and 25-62 is/are reje 7) ⊠ Claim(s) 57 and 58 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.	
 9) ☐ The specification is objected to by the Examin 10) ☐ The drawing(s) filed on 04 August 2005 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examin 	: a)⊠ accepted or b)⊡ objectraming(s) be held in abeyand ction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Aporty documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152)

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l	This action is in response to the communication filed on 5/02/2006.				
2	DETAILED ACTION				
3	Continued Examination Under 37 CFR 1.114				
4	A request for continued examination under 37 CFR 1.114, including the fee set forth in				
5	37 CFR 1.17(e), was filed in this application after final rejection. Since this application is				
6	eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)				
7	has been timely paid, the finality of the previous Office action has been withdrawn pursuant to				
8	37 CFR 1.114. Applicant's submission filed on 5/2/2006 has been entered.				
9	Response to Arguments				
10	Applicant's arguments filed 5/2/2006 have been fully considered but they are not				
11	persuasive. Applicant argues primarily that:				
12	A. Fig. 3 supports the limitation that a control code index is in place prior to the				
13	reception of an input data string.				
14	B. Page 18 supports selection of a control code is independent of input data string.				
15	C. De Maine does not disclose the values of the control code index are independent				
16	of input data string specific characteristics.				
17	D. Cellier does not disclose that the values of the control code index are independent				
18	of input data string specific characteristics.				
19	Regarding Applicant's argument A., that Fig. 3 supports the limitation that a control code				
20	index is in place prior to the reception of an input data string, the examiner does not find the				
21	argument persuasive. Fig. 3 is merely a sample control code index and neither Fig. 3 or the text				
22	of the specification regarding Fig. 3 disclose or even suggest that the control code index was				

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available prior to the reception of an input data string. As such the examiner does not find the argument persuasive, and has therefore maintained the objection to the specification and the rejection of the independent claims under 35 USC 112 1st Paragraph.

Regarding Applicant's argument B., that Page 18 supports selection of a control code is independent of input data string, the examiner does not find the argument persuasive. The applicant appears to have misinterpreted the rejection, in that the rejection is based on a lack of support for the limitation that the values of the control code being independent of input data string specific characteristics, as recited in the claims, and not the selection of the control code being independent. As such the examiner does not find the argument persuasive, and has therefore maintained the objection to the specification and the rejection of the independent claims under 35 USC 112 1st Paragraph.

All objections and rejections not set forth below have been withdrawn.

13 Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Claims 1, 21, 23, and 62 recite the limitations of an "index being defined prior to receiving the input data string", and the "values of the generated control code being independent of input data string specific characteristics".

See the rejection of these claims under 35 USC 112 1st Paragraph, for further explanation.

Claim Objections

Claims 57-58 are objected to because of the following informalities: The claims recite "wherein encrypting the encrypted data string, further comprising:" which is not grammatically correct. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 3, 5-10, 21-23, and 25-62 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 1, 21, 23, and 62, the limitations of an "index being defined prior to receiving the input data string", and the "control codes are independent of input data string specific characteristics" are not supported by the specification. Although there was disclosure of providing a control code index, there was no description of when the index was defined, or more specifically that it was defined prior to receipt of the input data string, or that the values of the control codes were independent of the input data string. As such, it is unclear whether applicant had possession of the claimed invention at the time of application. Therefore, claims 1, 3, 5-10, 21-23, and 25-62 are rejected for failing to meet the written description requirement of 35 USC 112 1st Paragraph.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5, 8-10, 21-23, 25-26, 29-40, 44-55, and 59-62 are rejected under 35

U.S.C. 103(a) as being unpatentable over De Maine et al. (US Patent Number 3,656,178)

hereinafter referred to as De Maine, and further in view of Cellier et al. (US Patent Number

5,884,269) hereinafter referred to as Cellier.

Regarding claim 1, De Maine disclosed a method of encrypting an input data string including a plurality of bits of binary data with a processing device communicatively coupled to a memory having an encryption program stored therein, the method comprising: receiving an input data string for encryption at the processing device (See De Maine Col. 91 Lines 67-73); determining an order in which to query the presence of each of 2ⁿ different configurations of n bits within an input data string (See De Maine Col. 91 Lines 67-74, 256 Byte Table); generating a code associated with the determined order (See De Maine Col. 92 Lines 5-10, Type 2 codes); generating a position code by identifying the positions of each of the 2ⁿ different configurations of n bits in an input data string in accordance with the determined order (See De Maine Col. 92 Lines 31-39, Bit Map); and combining the control code and the position code to form an encrypted data string (See De Maine Col. 92 Lines 40-44), however, De Maine did not specifically disclose providing a control code index that is defined prior to receiving the input data string for encryption at the processor, the control code index including a plurality of control

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codes wherein the values of the plurality of control codes are independent of input data string

2 specific characteristics, or generating a control code using the control code index.

Cellier teaches that in a coding method, a table dictionary (control code index) including a plurality of tables should be incorporated and table select (control code), for identifying which table was used in the coding method, should be "generated" (chosen from the index) and included with the encoded data (See Cellier Col. 4 Line 46 – Col. 5 Line 55 and Col. 13 Lines 24-33).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Cellier in the coding system of De Maine by providing a table dictionary including tables (See De Maine Col. 91 Lines 67-74) which are identified using a table select (control code) and including the table select with the encoded data in order to allow the decoder to identify which table was used for encoding. This would have been obvious because the ordinary person skilled in the art would have been motivated to provide a highly efficient and compact way of mapping the statistics of the input string in order to identify the optimum encoding table.

Regarding claim 21, De Maine disclosed a method for encrypting an input data string including a plurality of bits of binary data (See De Maine Col. 2 Paragraph 1), the method comprising: receiving an input data string for encryption (See De Maine Col. 91 Lines 67-74); determining an order in which to query the presence of each of 2ⁿ different configurations of n bits within an input data string (See De Maine Col. 91 Lines 67-74, 256 Byte Table); generating a code associated with the determined order (See De Maine Col. 92 Lines 5-10, Type 2 codes);

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1 generating a position code by identifying the positions of each of the 2ⁿ different configurations

of n bits in an input data string in accordance with the determined order (See De Maine Col. 92

3 Lines 31-39, Bit Map); and combining the control code and the position code to form an

4 encrypted data string (See De Maine Col. 92 Lines 40-44), however, De Maine did not

5 specifically disclose providing a control code index that is defined prior to receiving the input

data string for encryption at the processor, the control code index including a plurality of control

codes wherein the values of the plurality of control codes are independent of input data string

specific characteristics, or generating a control code using the control code index.

Cellier teaches that in a coding method, a table dictionary (control code index) including a plurality of tables should be incorporated and table select (control code), for identifying which table was used in the coding method, should be "generated" (chosen from the index) and included with the encoded data (See Cellier Col. 4 Line 46 – Col. 5 Line 55 and Col. 13 Lines 24-33).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Cellier in the coding system of De Maine by providing a table dictionary including tables (See De Maine Col. 91 Lines 67-74) which are identified using a table select (control code) and including the table select with the encoded data in order to allow the decoder to identify which table was used for encoding. This would have been obvious because the ordinary person skilled in the art would have been motivated to provide a highly efficient and compact way of mapping the statistics of the input string in order to identify the optimum encoding table.

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Regarding claim 23, De Maine disclosed a computer readable medium including computer program instructions that cause a computer to implement a method of encrypting an input data string, including a plurality of bits of binary data (See De Maine Col. 2 Paragraph 1), the method comprising: receiving an input data string for encryption (See De Maine Col. 91 Lines 67-74); determining an order in which to query the presence of each of 2ⁿ different configurations of n bits within an input data string (See De Maine Col. 91 Lines 67-74, 256 Byte Table); generating a code associated with the determined order (See De Maine Col. 92 Lines 5-10. Type 2 codes); generating a position code by identifying the positions of each of the 2ⁿ different configurations of n bits in an input data string in accordance with the determined order (See De Maine Col. 92 Lines 31-39, Bit Map); and combining the control code and the position code to form an encrypted data string (See De Maine Col. 92 Lines 40-44), however, De Maine did not specifically disclose providing a control code index that is defined prior to receiving the input data string for encryption at the processor, the control code index including a plurality of control codes wherein the values of the plurality of control codes are independent of input data string specific characteristics, or generating a control code using the control code index.

Cellier teaches that in a coding method, a table dictionary (control code index) including a plurality of tables should be incorporated and table select (control code), for identifying which table was used in the coding method, should be "generated" (chosen from the index) and included with the encoded data (See Cellier Col. 4 Line 46 – Col. 5 Line 55 and Col. 13 Lines 24-33).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Cellier in the coding system of De Maine by providing a

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table dictionary including tables (See De Maine Col. 91 Lines 67-74) which are identified using

2 a table select (control code) and including the table select with the encoded data in order to allow

3 the decoder to identify which table was used for encoding. This would have been obvious

4 because the ordinary person skilled in the art would have been motivated to provide a highly

efficient and compact way of mapping the statistics of the input string in order to identify the

6 optimum encoding table.

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Regarding claim 62, De Maine disclosed an electronic device for encrypting an input data string, including a plurality of bits of binary data, comprising: a processor configured to receive an input data string for encryption (See De Maine Col. 91 Lines 67-73); determining upon reception of the input data string, an order in which to query the presence of each of two 2n different configurations of n bits within an input data string (See De Maine Col. 91 Lines 67-74, 256 Byte Table), and generates a code associated with the determined order (See De Maine Col. 92 Lines 5-10, Type 2 codes), the processor generating a position code, through the identification of positions of each of the two 2n different configurations of n bits in the input data string in accordance with the determined order (See De Maine Col. 92 Lines 31-39, Bit Map) to combine the control code and the position code to form an encrypted data string (See De Maine Col. 92 Lines 40-44), however, De Maine did not specifically disclose providing a control code index that is defined prior to receiving the input data string for encryption at the processor, the control code index including a plurality of control codes wherein the values of the plurality of control codes are independent of input data string specific characteristics, or generating a control code using the control code index.

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Cellier teaches that in a coding method, a table dictionary (control code index) including a plurality of tables should be incorporated and table select (control code), for identifying which table was used in the coding method, should be "generated" (chosen from the index) and included with the encoded data (See Cellier Col. 4 Line 46 - Col. 5 Line 55 and Col. 13 Lines 24-33). It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Cellier in the coding system of De Maine by providing a table dictionary including tables (See De Maine Col. 91 Lines 67-74) which are identified using a table select (control code) and including the table select with the encoded data in order to allow the decoder to identify which table was used for encoding. This would have been obvious because the ordinary person skilled in the art would have been motivated to provide a highly efficient and compact way of mapping the statistics of the input string in order to identify the optimum encoding table. Regarding claims 3 and 25. De Maine and Cellier disclosed determining an order comprises selecting a predetermined order (See De Maine Col. 91, 256 Byte Table and the

rejection of claim 1 above).

Regarding claims 5, 22, and 26, De Maine and Cellier disclosed dividing the input data string into a plurality of blocks of data (See De Maine Col. 92 Lines 31-38).

Regarding claim 8, and 30, De Maine and Cellier disclosed generating a plurality of block codes associated with a plurality of blocks of data, each block code indicating the number of bits within the associated block of data (See De Maine Col. 101 Lines 45-52).

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Regarding claim 9, and 31, De Maine and Cellier disclosed combining the each of the plurality of block codes with the control code and the position code for the associated block of data (See De Maine Col. 101 Lines 45-52 and the rejection of claim 1 above).

Regarding claim 10, and 32, De Maine and Cellier disclosed that determining an order comprises determining an order based on the frequencies of the 2ⁿ combinations of the n bits of the input data string (See De Maine Col. 101 Lines 20-25).

Regarding claims 29, and 50, De Maine and Cellier disclosed that the computer readable code for determining an order further comprises computer readable code for determining a first order associated with a first block of data and determining a second order associated with a second block of data wherein the first order is different than the second order (See De Maine Col. 91 Lines 67-74).

Regarding claim 33, De Maine and Cellier disclosed that the computer readable code for determining an order further comprises computer readable code for determining an order in which to query the presence of each of 2ⁿ different configurations of n bits based on an analysis of the input data (See De Maine Col. 91 Lines 67-74).

Regarding claims 34 and 48, De Maine and Cellier disclosed generating the control code based on the input string (See De Maine Col. 91 Lines 67-74 and the rejection of claim 1 above), but failed to disclose randomly generating the control code. However, it was well known in the art at the time of invention that an input to a function could be random. It therefore would have been obvious to the ordinary person skilled in the art at the time of invention that when the input was random, the control code generated would also be random since it was based on the input.

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1 This would have been obvious because the ordinary person skilled in the art would have used

2 what was well known in the art to come to this conclusion.

Regarding claims 35, and 49, De Maine and Cellier disclosed generating the control code based on a mathematical formula (See De Maine Col. 91 Lines 67-74 and the rejection of claim 1 above)

Regarding claims 36 and 51, De Maine and Cellier disclosed determining whether the input data string can be compressed simultaneously as it is encrypted (See De Maine Col. 101 Lines 20-28).

Regarding claims 37 and 52, De Maine and Cellier disclosed dividing the input data string into n bit sequences (See De Maine Col. 91 Lines 67-74); comparing each of the 2ⁿ different configurations of n bits with each of the n bit sequences (See De Maine Col. 91 Lines 67-74); determining the frequency of each of the 2ⁿ different configurations appearing in the input data string (See De Maine Col. 91 Lines 67-74); determining whether a specific relationship exists between values of the frequencies of each of the individual 2ⁿ different configurations appearing in the input date string wherein the existence of the specific relationship is indicative of the presence of a characteristic within the input data string and wherein the presence of the characteristic indicates that the input data string can be compressed simultaneously as it is encrypted (See De Maine Col. 101 Lines 20-25); selecting a first position code routine associated with the determined order when the specific relationship exists, the first position code being operable to encrypt and compress the input data string (See De Maine Col.

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1 101 Lines 20-25 and Col. 92 Paragraphs 1-2); and selecting a second position code routine

2 associated with the determined order when the specific relationship does not exist, the second

position code being operable to encrypt the input data string without any compression (See De

Maine Col. 101 Lines 20-25 and Col. 92 Paragraphs 1-2).

Regarding claims 38 and 53, De Maine and Cellier disclosed that the determining the order in which to query the presence of each of 2ⁿ different configurations of n bits within an input data string comprises computer readable code for determining the order in which to query the presence of each of 2² different configurations of 2 bits within an input data string (See De Maine Col. 91 Lines 47-48).

Regarding claims 39 and 54, De Maine and Cellier disclosed dividing the input data string into n bit sequences (See De Maine Col. 91 Lines 67-74); comparing each of the 2ⁿ different configuration of n bits with each of the n bit sequences of the input data string (See De Maine Col. 91 Lines 67-74); determining a first number representative of the number of times the most frequently occurring 2ⁿ configuration appears in the input string; determining a second number representative of the number of times the second most frequently occurring 2ⁿ configuration appears in the input string; determining a third number representative of the number of times the third most frequently occurring 2ⁿ configuration appears in the input string determining a fourth number representative of the number of times the fourth most frequently occurring 2ⁿ configuration appears in the input string (See De Maine Col. 91 Lines 67-74); selecting a first position code routine associated with the determined order when the first number is greater than the sum of the third number and the fourth number, the first position code routine

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being operable to encrypt and compress the input data string (See De Maine Col. 92 Paragraphs

2 1-2 and Col. 101 Lines 20-27); and selecting a second position code routine associated with the

determined order when the first number is not greater than the sum of the third number and the

fourth number, the second position code routine being operable to encrypt the input data string

without any compression (See De Maine Col. 92 Paragraphs 1-2 and Col. 101 Lines 20-27).

Regarding claims 40 and 55, De Maine and Cellier disclosed that generating a control code associated with the determined order, further comprises: generating a first control code associated with the determined order when the first position code routine is selected; and generating a second control code associated with the determined order when the second position code routine is selected wherein the first control code is different than the second control code (See De Maine Col. 92 Paragraphs 1-2).

Regarding claims 44 and 59, De Maine and Cellier disclosed selecting a default order (See De Maine Col. 91 Lines 67-74 and the rejection of claim 1 above).

Regarding claims 45-46 and 60-61, De Maine and Cellier disclosed determining an order based on the relative frequencies of the combinations of n bits (See De Maine Col. 91 Lines 67-74).

Regarding claim 47, De Maine and Cellier disclosed determining the order based on an analysis of the input data string (See De Maine Col. 91 Lines 67-74).

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1 Claims 6-7, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Maine and Cellier as applied to claims 5, and 26 respectively, and further in view of Shimizu et 2 al. (US Patent Number 6,772,343) hereinafter referred to as Shimizu. 3 4 De Maine and Cellier disclosed blocking the input data into block sizes of a certain range (See De Maine Col. 92 Lines 31-38) but failed to disclose determining the size of the blocks 5 6 randomly or mathematically. 7 Shimizu teaches that in a block encoding system, generating each block size randomly makes illicit access of the data more difficult and makes the cryptosystem more robust (See 8 9 Shimizu Col. 5 Lines 9-18). Shimizu further teaches that the random sizes are generated 10 mathematically using a seed (See Shimizu Col. 15 Paragraphs 3-7). 11 It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Shimizu in the invention of De Maine and Cellier to 12 13 mathematically generate random block lengths. This would have been obvious because the 14 ordinary person skilled in the art would have been motivated to provide the added security of 15 random block lengths to the compressed data. 16 17 Claims 41-42, and 56-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over 18 De Maine and Cellier as applied to claim 1 above, and further in view of Weiss (US Patent Number 5,479,512). 19 20 De Maine and Cellier disclosed compressing input data (See De Maine Cols. 91-92), but

failed to disclose re-encrypting the data after the compression was performed.

1	Weiss teaches that after compression is performed, the compressed data should be
2	XORed with a key, in small blocks at a time (See Weiss Col. 5 Paragraphs 4-5 and Col. 6
3	Paragraph 3 and Fig. 3A).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Weiss in the compression system of De Maine and Cellier by XORing the coded data with a key in small blocks at a time. This would have been obvious because the ordinary person skilled in the art would have been motivated to protect the data from unauthorized observing.

Claims 41, 43, 56, and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Maine and Cellier as applied to claim 1 above, and further in view of Butler et al. (US Patent Number 5,861,887) hereinafter referred to as Butler.

De Maine and Cellier disclosed compressing input data (See De Maine Cols. 91-92), but failed to disclose re-encrypting the data after compression was performed.

Butler teaches that compression should be repeated as many times as necessary in order to make the data being compressed sufficiently small (See Butler Col. 3 Paragraph 2).

It would have been obvious to the ordinary person skilled in the art at the time of invention to employ the teachings of Butler in the compression system of De Maine and Cellier by repeating the compression on the coded output as many times as necessary to get the output to be sufficiently small. This would have been obvious because the ordinary person skilled in the art would have been motivated to provide more efficient storage of the audio data.

22 Conclusion

1	Claims 1, 3	, 5-10	21-23	, and 25-62	have been re	eiected.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew T. Henning whose telephone number is (571) 272-3790.

4 The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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23 Assistant Examiner

24 Art Unit 2131

25 7/14/2006

AYAZ SHEIKH

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100